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RAN-2103001106020001

B. Sc. Biotechnology (Sem. VI) Examination March - 2025

BT 17: Pharmaceutical Biotechnology

Time: 2 Hours]

[Total Marks: 50

સૂચના : / Instructions

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નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of signs on your answer book

Name of the Examination:

B. Sc. Biotechnology (Sem. VI)

Name of the Subject :

BT 17: Pharmaceutical Biotechnology

Subject Code No.: **2103001106020001**

Seat No.:

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Student's Signature

- (2) Figures to the right indicate full marks.
(3) Draw neat and labelled diagrams wherever necessary.

Q-1. Attempt the following questions: (Any four)

[08]

- Explain how vesosomes enhance drug delivery efficiency.
- Define LD50.
- State the function of Reverse Pharmacology.
- Enlist any four new routes for drug delivery.
- State the function of CDRH.

Q-2. Attempt Any Two:

[14]

- Enlist landmark discovery in the field of biopharmaceuticals.
- Explain how liposomes facilitate drug delivery and their underlying mechanism.
- Describe the significance of Omics technology in drug development and biopharmaceutical research.

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[1]

[P.T.O.]

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Q-3. Explain in detail Any Two: [14]

- a) State the principle on which antisense and antigene therapy works.
- b) Discuss the important aspects of project planning in drug development.
- c) Compare and contrast between pharmacokinetics and pharmacodynamic features of protein versus chemical drugs.

Q-4. Attempt Any Two of the following: [14]

- a) Explain how the FDA regulates biopharmaceutical products.
 - b) State functions of regulatory affair departments.
 - c) Justify: Recombinant DNA technology has a fourfold positive impact upon the production of pharmaceutically important proteins.
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